AIRPLANE QUESTIONNAIRE

Name: WING EXAMPLE Grade: CAPID:

Unit: Date:

Check Pilot: Grade: CAPID:

Score: Type/Model Aircraft: C-182 R

Complete this open book questionnaire using the *Flight Manual/Pilot's Operating Handbook*. If a question or part of a question is not applicable, write in NA. The check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.

1. Approved fuel grades and colors are: 100 LL (Blue)
2. Location/capacity of each fuel tank is: Top each Wing / 46 gals each
3. Total usable fuel under all flight conditions is 88 gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is 5.9 hours.
5. What make and grade oil is used? Winter: 15 W 50 Summer: 20 W 50
6. Oil capacity is 12 quarts. Minimum oil quantity for take off is 9 quarts.
7. Minimum oil pressure is 10 psi. Maximum oil pressure is 100 .
8. Maximum oil temperature is 240 degrees (F or C) F .
9. Magnetos are checked at 1700 RPM. RPM drop should not exceed 150 RPM on either magneto or 50 RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are 2400 and 27 in/Hg.
11. Maximum gross takeoff weight is 3100 pounds. Empty weight is 1877 pounds. Useful load is 1223 pounds. Maximum landing weight is 2950 pounds.
12. Baggage compartment locations/weights are: A=120 lbs, B= 80 lbs, C=80 lbs, total 200 lbs
13. Give the IAS at maximum gross weight for:

a. Va (maneuvering speed).	111	e. Vx (best angle of climb, sea level).	59
b. Vso (stall, landing config, power. off).	40	f. Vmc (minimum control speed – multi-engine only).	n/a
c. Vs1 (stall, cruise config, power. off).	50		
d. Vy (best rate of climb, sea level).	81	g. Best glide speed.	61

14. Give the immediate action/memory items for:

a. Engine failure immediately after takeoff.

Airspeed 75 ISA, Mixture idle cutoff, fuel selector off, flaps as required

b. Fire during cranking and engine fails to start.

Crank continue to suck flames into carb.

c. Engine fire in flight.

Mixture off, fuel selector off, master off, cabin air & heat off

d. Electrical fire in flight.

Master off, avionics off, all other switches off.

Continue on Reverse

Airplane Questionnaire (Continued)

15. Normal takeoff flap setting is 10 , short field takeoff setting is 20 , and soft field takeoff flap setting is 20 .

16. Maximum demonstrated takeoff/landing crosswind component is 15 knots.

17. Given: PA = 4,000 feet; Temp = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.

    Find: Total takeoff distance to clear a 50-foot obstacle: 2260 ft

18. Given: PA = 6,000 feet; Temp = 68° F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.

    Find: Total landing distance to clear a 50-foot obstacle: 1615 ft

19. Landing runway 22; wind 190o at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? NO